Search in Rotated Sorted Array

class Solution:

def search(self, nums: List[int], target: int) -> int:

n = len(nums)

start ,end = 0,n-1

while start <= end:

mid = start + (end-start)//2

if nums[mid] == target:

return mid

elif nums[mid] >= nums[start]:

if target >= nums[start] and target < nums[mid]:

end = mid - 1

else:

start = mid + 1

else:

if target > nums[mid] and target <= nums[end]:

start = mid + 1

else:

end = mid - 1

return -1